

SEQUENCE LISTING

<110> National Institute of Advanced Industrial Science and Technology

KANKYO ENGINEERING Co., Ltd.

<120> NOVEL NUCLEIC ACID PROBES, METHOD FOR DETERMINING CONCENTRATIONS OF NUCLEIC ACID BY USING THE PROBES, AND METHOD FOR ANALYZING DATA OBTAINED BY THE METHOD.

<150> JP2000/193133

JP2000/236115

JP2000/292483

<151> June 27, 2000

<160> 69

<210> 1

<211> 15

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease and decrease in fluorescence emission of a nucleic acid probe labeled with Dabcyl and Texas Red upon the hybridization of the probe with a target nucleic acid.

<400> 1

ggggggaaaa aaaaa 15

<210> 2

<211> 15

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease and decrease in fluorescence emission of a nucleic acid probe labeled with Dabcyl and Texas Red upon the hybridization of the probe with a target nucleic acid.

<400> 2

tttttttttc ccccc 15

<210> 3

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was hybridized with 16S RNA gene of Escherichia coli.

<400> 3

ctg cct ccc gta gga gt 20

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was hybridized with 23S RNA gene of Escherichia coli JM109

<400> 4
ccc aca tcg ttt tgt ctg gg 20

<210> 5
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 5
atatatatattt tttttttgttt ttttttttttt 30

<210> 6
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 6
atatatatattt tttttttgttt ttttttttttt 30

<210> 7
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 7
atatatatattt tttttttttgtt ttttttttttt 30

<210> 8
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 8
atatatatattt ttttttttttg ttttttttttt 30

<210> 9
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 9
atatatatatt ttttttctttt tttttttttt 30

<210> 10
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 10
atatatatatt ttttttctttt tttttttttt 30

<210> 11
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 11
atatatatatt tttttttctt tttttttttt 30

<210> 12
<211> 30
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.
<400> 12
atatatatatt ttttttttct tttttttttt 30

<210> 13
<211> 30
<212> DNA
<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 13

atatatatattt ttttttttttc ttttttttttt

30

<210> 14

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 14

aacaaaaaaa atatatat

18

<210> 15

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 15

acaaaaaaaa atatatat

18

<210> 16

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 16

caaaaaaaaa atatatat

18

<210> 17

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 17

aaaaaaaaaa atatatat 18

<210> 18

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 18

aagaaaaaaaa atatatat 18

<210> 19

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 19

agaaaaaaaaa atatatat 18

<210> 20

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 20

gaaaaaaaaaa atatatat 19

<210> 21

<211> 20

<212> DNA

<213> Artificial

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 21

tatatatata ttttttggggg 20

<210> 22

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 22

tatatatata tttttttggg 20

<210> 23

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 23

tatatatata tttttttggg 20

<210> 24

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 24

tatatatata ttttttttgg 20

<210> 25

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 25

tatatatata tttttttttg 20

<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 26
tatatatata ttttttcccc 20

<210> 27

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 27
tatatatata ttttttcccc 20

<210> 28

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 28
tatatatata tttttttccc 20

<210> 29

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 29
tatatatata ttttttttcc 20

<210> 30

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 30
tatatatata tttttttttc 20

<210> 31

<211> 20

<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 31
tatatatata tttttttttt 20

<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 32
cccccaaaaa tatatatata 20

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 33
cccccaaaaa tatatatata 20

<210> 34
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 34
cccccaaaaa tatatatata 20

<210> 35
<211> 20
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the

probe with a target nucleic acid.

<400> 35

caaaaaaaaaa tatatatata 20

<210> 36

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 36

caaaaaaaaaa tatatatata 20

<210> 37

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 37

gggggaaaaa tatatatata 20

<210> 38

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 38

gggggaaaaa tatatatata 20

<210> 39

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 39

gggaaaaaaa tatatatata 20

<210> 40

<211> 20
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 40
 ggaaaaaaaaa tatatatata 20

<210> 41
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 41
 gaaaaaaaaa tatatatata 20

<210> 42
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 42
 aaaaaaaaaa tatatatata 20

<210> 43
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 43
 cccccctttt tttttttt 18

<210> 44
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid

probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 44

gggggggaaaa aaaaaaaaa 18

<210> 45

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 45

ttttttcccc cccccccc 18

<210> 46

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 46

aaaaaagggg gggggggg 18

<210> 47

<211> 15

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 47

aaaaaaaaag ggggg 15

<210> 48

<211> 15

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 48

tttttttttc ccccc 15

<210> 49
 <211> 15
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 49
 ggggggggga aaaaa 15

<210> 50
 <211> 15
 <212> DNA
 <213> Artificial Sequence
 <223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 50
 cccccccct ttttt 15

<210> 51
 <211> 35
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806), which sequence is corresponding to the positions 1156 to 1190 of 16SrRNA in Escherichia coli JM109 strain. The oligonucleotide is an oligodeoxyribonucleotide in positions 1 to 16 and 25 to 35, and is an oligoribonucleotide in positions 17 to 24.

<400> 51
 catccccacc ttctccgagt tgaccccg cagtc 35

<210> 52
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806).

<400> 52
 tcctttgagt tcccgccgg a 21

<210> 53
 <211> 32
 <212> RNA
 <213> Artificial Sequence
 <223> The RNA hybridizes specifically with a sequence of 16SrRNA

in Cellulomonas sp.KYM-7 (FERM P-16806).

<400> 53

ccctgggtcgt aagggccatg atgacttgac gt 32

<210> 54

<211> 35

<212> RNA

<213> Artificial Sequence

<223> The RNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806).

<400> 54

catccccacc ttcctccgag ttgaccccgg cagtc 35

<210> 55

<211> 17

<212> RNA

<213> Artificial Sequence

<223> The RNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806).

<400> 55

ccttcctccg agttgac 17

<210> 56

<211> 35

<212> DNA

<213> Artificial Sequence

<223> The DNA hybridizes specifically with a sequence of 16SrRNA in Cellulomonas sp.KYM-7 (FERM P-16806).

<400> 56

catccccacc ttcctccgag ttgaccccgg cagtc 35

<210> 57

<211> 36

<212> DNA

<213> Artificial Sequence

<223> The DNA hybridizes specifically with a sequence of 16SrRNA in Agromobacterium sp. KYM-8 (FERM P-11358).

<400> 57

catccccacc ttcctctcggc ttatcaccg gcagtc 36

<210> 58

<211> 19

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 58

ctttttttttt ccccccccc 19

<210> 58

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 58

tttcttttttt ccccccccc 19

<210> 60

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 60

gggggggggaa aaaaaaag 18

<210> 61

<211> 18

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 61

gggggggggaa aaaagaaa 18

<210> 62

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 62

cgggggggggt ttttttt 17

<210> 63

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 63

aaaaaaaaacc cccccc 17

<210> 64

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 64

aaaaaaaaacc cccccc 17

<210> 65

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 65

aaaaaaaaacc cccccc 17

<210> 66

<211> 17

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 66

aaaaaaaaacc cccccc 17

<210> 67

<211> 50

<212> DNA

<213> Artificial Sequence

<223>

<400> 67

aaacgatgtg gcaaggccca gacagccagg atgttggtt agaagcagcc 50

<210> 68

<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 68
ccttcccaca tcgtttt 16

<210> 69
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 69
ccttcccata tcgtttt 16

<210> 70
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 70
ccttccc aaa tcgtttt 16

<210> 71
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 71
ccttcccaga tcgtttt 16

<210> 72
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid

probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 72

ccttcctga tcgtttt 16

<210> 73

<211> 16

<212> DNA

<213> Artificial Sequence

<223> The base sequence was prepared synthetically on the aim of examining the decrease in fluorescence emission of a nucleic acid probe labeled with BODIBY FL/C6 upon the hybridization of the probe with a target nucleic acid.

<400> 73

ccttcctgt tcgtttt 16

<210> 74

<211> 19

<212> DNA

<213> Artificial Sequence

<223> The DNA hybridizes with the gene of 16SrRNA gene in Escherichia coli.

<400> 74

catcgtttac ggcgtggac 19

<210> 75

<211> 19

<212> DNA

<213> Artificial Sequence

<223> The DNA hybridizes with the gene of 16SrRNA gene in Escherichia coli.

<400> 75

ccagcagccg cggtataac 19

<210> 76

<211> 20

<212> DNA

<213> Artificial Sequence

<223> The DNA hybridizes with 16SrRNA gene in Escherichia coli.

<400> 76

agagtttgat cctggctcag 20

<210> 77

<211> 19

<212> DNA

<213> Artificial

<223> The DNA hybridizes with 16SrRNA gene in Escherichia coli.

<400> 77

ggttaccttg ttacgactt 19

<210> 78
 <211> 14
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with 16SrRNA gene in Escherichia coli.
 <400> 78
 cgggcggtgt gtac 14

<210> 79
 <211> 23
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with the human -globin gene.
 <400> 79
 ctggtctcct taaacctgtc ttg 23

<210> 80
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with the human -globin gene.
 <400> 80
 gggttgccaa tctactccca gg 22

<210> 81
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with 16S RNA of Escherichia coli
 <400> 81
 citaacacat gcaagtcg 18

<210> 82
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with . 16S RNA of Escherichia coli
 <400> 82
 ttgtacacac cgcccgta 19

<210> 83
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with 16S RNA gene of Paracoccus
 denitrificans DSM 413
 <400> 83
 ctaatccttt ggccataaa tc 22

<210> 84
 <211> 20
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with 16S RNA gene of Paracoccus
 denitrificans DSM 413
 <400> 84
 agagtttgat cctggctc ag 20

<210> 85
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <223> The DNA hybridizes with . 16S RNA gene of Paracoccus
 denitrificans DSM 413
 <400> 85
 ggttaccttg ttacgactt 19

<210> 86
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <223> The sequence hybridized with of the sequence of the above
 no.83
 <400> 86
 gatttatcgc caaaggatta g 21

<210> 87
 <211> 21
 <212> DNA
 <213> Artificial Sequence
 <223> The sequence hybridizes with the sequence of the above
 no..83.
 <400> 87
 gatttatcgt caaaggatta g 21

<210> 88
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <223> A sequence of the CYP21 gene of human.
 <400> 88
 cgcagccgag catggaaca 19

<210> 89

<211> 16
 <212> DNA
 <213> Artificial Sequence
 <223> A sequence of the CYP21 gene of human.
 <400> 89
 cgctgctgcc ctccgg 16

<210> 90
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <223> A sequence of the CYP21 gene of human..
 <400> 90
 aagggcacgt gcacatggc 19

<210> 91
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <223> A sequence of the CYP21 gene of human..
 <400> 91
 catcgtggag atgcagctga cg 22

<210> 92
 <211> 25
 <212> DNA
 <213> Artificial Sequence
 <223> A sequence of the CYP21 gene of human...
 <400> 92
 cctgcagcat catctgttac ctcac 25

<210> 93
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <223> The sequence hybridizes with the sequence of the above
 no.88...
 <400> 93
 tcttccatgc tcggctgcg 19

<210> 94
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <223> The sequence hybridizes with the sequence of the above
 no.88...
 <400> 94
 tcttccatgg tcggctgcg 19

<210> 95
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above
no.89...

<400> 95
ccggagggca gcagcg 16

<210> 96
<211> 16
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above
no.89...

<400> 96
ccggaggaca gcagcg 16

<210> 97
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above
no.90...

<400> 97
gccatgtgca cgtgccctt 19

<210> 98
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above
no.90..

<400> 98
gccatgtgca agtgccctt 19

<210> 99
<211> 19
<212> DNA
<213> Artificial Sequence
<223> The sequence hybridizes with the sequence of the above
no.91...

<400> 99
gcctgccacg aggctctcc 19

<210> 100
<211> 19
<212> DNA

<213> Artificial Sequence
 <223> The sequence hybridizes with the sequence of the above
 no.91...
 <400> 100
 gcctgccacc aggctctcc 19

<210> 101
 <211> 25
 <212> DNA
 <213> Artificial Sequence
 <223> The sequence hybridizes with the sequence of the above
 no.92.
 <400> 101
 gtgaggtaac agatgatgct gcagg 25

<210> 102
 <211> 25
 <212> DNA
 <213> Artificial Sequence
 <223> The sequence hybridizes with the sequence of the above
 no.92..
 <400> 102
 gtgaggtaac agttgatgct gcagg 25

<210> 103
 <211> 18
 <212> DNA
 <213> Artificial Sequence
 <223> The sequence hybridizes with a sequence of human CYP21
 gene..
 <400> 103
 cttggggggg catatctg 18

<210> 104
 <211> 22
 <212> DNA
 <213> Artificial Sequence
 <223> The sequence hybridizes with a sequence of human CYP21
 gene..
 <400> 104
 acatccggct.ttgactctct ct 22

<210> 105
 <211> 19
 <212> DNA
 <213> Artificial Sequence
 <223> The sequence hybridizes with a sequence of human CYP21
 gene..
 <400> 105

aagggcacgt gcacatggc

19

<210> 106

<211> 26

<212> DNA

<213> Artificial Sequence

<223> The sequence hybridizes with a sequence of human CYP21 gene..

<400> 106

cctgcagcat catctgttac ctcac

26

<210> 107

<211> 19

<212> DNA

<213> Artificial Sequence

<223> The sequence hybridizes with a sequence of human CYP21 gene..

<400> 107

aagggcacgt gcacatggc

19

<210> 108

<211> 25

<212> DNA

<213> Artificial Sequence

<223> The sequence hybridizes with a sequence of human CYP21 gene..

<400> 108

cctgcagcat catctgttac ctcac

25